SEQUENCE LISTING

<110> Relton, Jane K.
Engber, Thomas M.
Strittmatter, Stephen M.

<120> Treatment of Conditions Involving Dopaminergic Neuronal Degeneration Using Nogo Receptor Antagonists

<130> 2159.0450001

<140> US 10/587,714
<141> 2005-01-28

<150> PCT/US2005/002535
<151> 2005-01-28

<150> US 60/540,798
<151> 2004-01-30

<160> 22

<170> PatentIn version 3.3

<210> 1
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<212> PRT
<213> Homo sapiens

<400> 1

Met Lys Arg Ala Ser Ala Gly Gly Ser Arg Leu Leu Ala Trp Val Leu
1 5 10 15

Trp Leu Gln Ala Trp Gln Val Ala Ala Pro Cys Pro Gly Ala Cys Val
20 25 30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Cys Pro Gln Gln Gly Leu
35 40 45

Gln Ala Val Pro Val Gly Ile Pro Ala Ala Ser Gln Arg Ile Phe Leu
50 55 60

His Gly Asn Arg Ile Ser His Val Pro Ala Ala Ser Phe Arg Ala Cys
65 70 75 80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Val Leu Ala Arg Ile
85 90 95

Asp Ala Ala Ala Phe Thr Gly Leu Ala Leu Leu Glu Gln Leu Asp Leu
100 105 110

Ser Asp Asn Ala Gln Leu Arg Ser Val Asp Pro Ala Thr Phe His Gly
115 120 125

Leu Gly Arg Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu
130 135 140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
145 150 155 160

Leu Gln Asp Asn Ala Leu Gln Ala Leu Pro Asp Asp Thr Phe Arg Asp
165 170 175

Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Ser Ser
180 185 190

Val Pro Glu Arg Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu
195 200 205

Leu His Gln Asn Arg Val Ala His Val His Pro His Ala Phe Arg Asp
210 215 220

Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Ala
225 230 235 240

Leu Pro Thr Glu Ala Leu Ala Pro Leu Arg Ala Leu Gln Tyr Leu Arg
245 250 255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
260 265 270

Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Glu Val Pro Cys Ser
275 280 285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Ala Asn
290 295 300

Asp Leu Gln Gly Cys Ala Val Ala Thr Gly Pro Tyr His Pro Ile Trp
305 310 315 320

Thr Gly Arg Ala Thr Asp Glu Glu Pro Leu Gly Leu Pro Lys Cys Cys
325 330 335

Gln Pro Asp Ala Ala Asp Lys Ala
340

<210> 2
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<212> PRT

<213> Rattus

<400> 2

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Met Lys Arg Ala Ser Ser Gly Gly Ser Arg Leu Pro Thr Trp Val Leu
1               5                  10                  15

Trp Leu Gln Ala Trp Arg Val Ala Thr Pro Cys Pro Gly Ala Cys Val
            20                  25                  30

Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser Arg Pro Gln Gln Gly Leu
        35                  40                  45

Gln Ala Val Pro Ala Gly Ile Pro Ala Ser Ser Gln Arg Ile Phe Leu
    50                  55                  60

His Gly Asn Arg Ile Ser Tyr Val Pro Ala Ala Ser Phe Gln Ser Cys
65                  70                  75                  80

Arg Asn Leu Thr Ile Leu Trp Leu His Ser Asn Ala Leu Ala Gly Ile
                85                  90                  95

Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu
            100                 105                 110

Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr Phe Arg Gly
        115                 120                 125

Leu Gly His Leu His Thr Leu His Leu Asp Arg Cys Gly Leu Gln Glu
    130                 135                 140

Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala Ala Leu Gln Tyr Leu Tyr
145                 150                 155                 160

Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro Asp Asn Thr Phe Arg Asp
                165                 170                 175

Leu Gly Asn Leu Thr His Leu Phe Leu His Gly Asn Arg Ile Pro Ser
            180                 185                 190

Val Pro Glu His Ala Phe Arg Gly Leu His Ser Leu Asp Arg Leu Leu
        195                 200                 205

Leu His Gln Asn His Val Ala Arg Val His Pro His Ala Phe Arg Asp
    210                 215                 220

Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe Ala Asn Asn Leu Ser Met
```

225 230 235 240

Leu Pro Ala Glu Val Leu Val Pro Leu Arg Ser Leu Gln Tyr Leu Arg
245 250 255

Leu Asn Asp Asn Pro Trp Val Cys Asp Cys Arg Ala Arg Pro Leu Trp
260 265 270

Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser Ser Gly Val Pro Ser Asn
275 280 285

Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu Lys Arg Leu Ala Thr Ser
290 295 300

Asp Leu Glu Gly Cys Ala Val Ala Ser Gly Pro Phe Arg Pro Phe Gln
305 310 315 320

Thr Asn Gln Leu Thr Asp Glu Glu Leu Leu Gly Leu Pro Lys Cys Cys
325 330 335

Gln Pro Asp Ala Ala Asp Lys Ala
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<210> 3
<211> 285
<212> PRT
<213> Homo sapiens

<400> 3

Pro Cys Pro Gly Ala Cys Val Cys Tyr Asn Glu Pro Lys Val Thr Thr
1 5 10 15

Ser Cys Pro Gln Gln Gly Leu Gln Ala Val Pro Val Gly Ile Pro Ala
20 25 30

Ala Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser His Val Pro
35 40 45

Ala Ala Ser Phe Arg Ala Cys Arg Asn Leu Thr Ile Leu Trp Leu His
50 55 60

Ser Asn Val Leu Ala Arg Ile Asp Ala Ala Ala Phe Thr Gly Leu Ala
65 70 75 80

Leu Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val
85 90 95

```
Asp Pro Ala Thr Phe His Gly Leu Gly Arg Leu His Thr Leu His Leu
            100                 105                 110

Asp Arg Cys Gly Leu Gln Glu Leu Gly Pro Gly Leu Phe Arg Gly Leu
        115                 120                 125

Ala Ala Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Ala Leu Gln Ala Leu
    130                 135                 140

Pro Asp Asp Thr Phe Arg Asp Leu Gly Asn Leu Thr His Leu Phe Leu
145                 150                 155                 160

His Gly Asn Arg Ile Ser Ser Val Pro Glu Arg Ala Phe Arg Gly Leu
                165                 170                 175

His Ser Leu Asp Arg Leu Leu Leu His Gln Asn Arg Val Ala His Val
            180                 185                 190

His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu
        195                 200                 205

Phe Ala Asn Asn Leu Ser Ala Leu Pro Thr Glu Ala Leu Ala Pro Leu
    210                 215                 220

Arg Ala Leu Gln Tyr Leu Arg Leu Asn Asp Asn Pro Trp Val Cys Asp
225                 230                 235                 240

Cys Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser
                245                 250                 255

Ser Ser Glu Val Pro Cys Ser Leu Pro Gln Arg Leu Ala Gly Arg Asp
            260                 265                 270

Leu Lys Arg Leu Ala Ala Asn Asp Leu Gln Gly Cys Ala
        275                 280                 285
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<210> 4
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<212> PRT
<213> Homo sapiens

<400> 4

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Pro Cys Pro Gly Ala Cys Val Cys Tyr Asn Glu Pro Lys Val Thr Thr
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Ser Cys Pro Gln Gln Gly Leu Gln Ala Val Pro Val Gly Ile Pro Ala
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            20                  25                  30

Ala Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser His Val Pro
        35                  40                  45

Ala Ala Ser Phe Arg Ala Cys Arg Asn Leu Thr Ile Leu Trp Leu His
    50                  55                  60

Ser Asn Val Leu Ala Arg Ile Asp Ala Ala Ala Phe Thr Gly Leu Ala
65                  70                  75                  80

Leu Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Ser Val
                85                  90                  95

Asp Pro Ala Thr Phe His Gly Leu Gly Arg Leu His Thr Leu His Leu
            100                 105                 110

Asp Arg Cys Gly Leu Gln Glu Leu Gly Pro Gly Leu Phe Arg Gly Leu
        115                 120                 125

Ala Ala Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Ala Leu Gln Ala Leu
    130                 135                 140

Pro Asp Asp Thr Phe Arg Asp Leu Gly Asn Leu Thr His Leu Phe Leu
145                 150                 155                 160

His Gly Asn Arg Ile Ser Ser Val Pro Glu Arg Ala Phe Arg Gly Leu
                165                 170                 175

His Ser Leu Asp Arg Leu Leu Leu His Gln Asn Arg Val Ala His Val
            180                 185                 190

His Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu
        195                 200                 205

Phe Ala Asn Asn Leu Ser Ala Leu Pro Thr Glu Ala Leu Ala Pro Leu
    210                 215                 220

Arg Ala Leu Gln Tyr Leu Arg Leu Asn Asp Asn Pro Trp Val Cys Asp
225                 230                 235                 240

Cys Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser
                245                 250                 255

Ser Ser Glu Val Pro Cys Ser Leu Pro Gln Arg Leu Ala Gly Arg Asp
            260                 265                 270
```

```
Leu Lys Arg Leu Ala Ala Asn Asp Leu Gln Gly Cys Ala Val Ala Thr
        275                 280                 285

Gly Pro Tyr His Pro Ile Trp Thr Gly Arg Ala Thr Asp Glu Glu Pro
    290                 295                 300

Leu Gly Leu Pro Lys Cys Cys Gln Pro Asp Ala Ala Asp Lys Ala
305                 310                 315
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<210> 5
<211> 284
<212> PRT
<213> Rattus

<400> 5

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Cys Pro Gly Ala Cys Val Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser
1               5                   10                  15

Arg Pro Gln Gln Gly Leu Gln Ala Val Pro Ala Gly Ile Pro Ala Ser
            20                  25                  30

Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser Tyr Val Pro Ala
        35                  40                  45

Ala Ser Phe Gln Ser Cys Arg Asn Leu Thr Ile Leu Trp Leu His Ser
    50                  55                  60

Asn Ala Leu Ala Gly Ile Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu
65                  70                  75                  80

Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp
                85                  90                  95

Pro Thr Thr Phe Arg Gly Leu Gly His Leu His Thr Leu His Leu Asp
            100                 105                 110

Arg Cys Gly Leu Gln Glu Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala
        115                 120                 125

Ala Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro
    130                 135                 140

Asp Asn Thr Phe Arg Asp Leu Gly Asn Leu Thr His Leu Phe Leu His
145                 150                 155                 160
```

```
Gly Asn Arg Ile Pro Ser Val Pro Glu His Ala Phe Arg Gly Leu His
                165                 170                 175

Ser Leu Asp Arg Leu Leu Leu His Gln Asn His Val Ala Arg Val His
            180                 185                 190

Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe
        195                 200                 205

Ala Asn Asn Leu Ser Met Leu Pro Ala Glu Val Leu Val Pro Leu Arg
    210                 215                 220

Ser Leu Gln Tyr Leu Arg Leu Asn Asp Asn Pro Trp Val Cys Asp Cys
225                 230                 235                 240

Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser
                245                 250                 255

Ser Gly Val Pro Ser Asn Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu
            260                 265                 270

Lys Arg Leu Ala Thr Ser Asp Leu Glu Gly Cys Ala
        275                 280
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<210> 6
<211> 318
<212> PRT
<213> Rattus

<400> 6

```
Cys Pro Gly Ala Cys Val Cys Tyr Asn Glu Pro Lys Val Thr Thr Ser
1               5                   10                  15

Arg Pro Gln Gln Gly Leu Gln Ala Val Pro Ala Gly Ile Pro Ala Ser
            20                  25                  30

Ser Gln Arg Ile Phe Leu His Gly Asn Arg Ile Ser Tyr Val Pro Ala
        35                  40                  45

Ala Ser Phe Gln Ser Cys Arg Asn Leu Thr Ile Leu Trp Leu His Ser
    50                  55                  60

Asn Ala Leu Ala Gly Ile Asp Ala Ala Ala Phe Thr Gly Leu Thr Leu
65                  70                  75                  80

Leu Glu Gln Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp
                85                  90                  95
```

```
Pro Thr Thr Phe Arg Gly Leu Gly His Leu His Thr Leu His Leu Asp
            100                 105                 110

Arg Cys Gly Leu Gln Glu Leu Gly Pro Gly Leu Phe Arg Gly Leu Ala
        115                 120                 125

Ala Leu Gln Tyr Leu Tyr Leu Gln Asp Asn Asn Leu Gln Ala Leu Pro
    130                 135                 140

Asp Asn Thr Phe Arg Asp Leu Gly Asn Leu Thr His Leu Phe Leu His
145                 150                 155                 160

Gly Asn Arg Ile Pro Ser Val Pro Glu His Ala Phe Arg Gly Leu His
                165                 170                 175

Ser Leu Asp Arg Leu Leu Leu His Gln Asn His Val Ala Arg Val His
            180                 185                 190

Pro His Ala Phe Arg Asp Leu Gly Arg Leu Met Thr Leu Tyr Leu Phe
        195                 200                 205

Ala Asn Asn Leu Ser Met Leu Pro Ala Glu Val Leu Val Pro Leu Arg
    210                 215                 220

Ser Leu Gln Tyr Leu Arg Leu Asn Asp Asn Pro Trp Val Cys Asp Cys
225                 230                 235                 240

Arg Ala Arg Pro Leu Trp Ala Trp Leu Gln Lys Phe Arg Gly Ser Ser
                245                 250                 255

Ser Gly Val Pro Ser Asn Leu Pro Gln Arg Leu Ala Gly Arg Asp Leu
            260                 265                 270

Lys Arg Leu Ala Thr Ser Asp Leu Glu Gly Cys Ala Val Ala Ser Gly
        275                 280                 285

Pro Phe Arg Pro Phe Gln Thr Asn Gln Leu Thr Asp Glu Glu Leu Leu
    290                 295                 300

Gly Leu Pro Lys Cys Cys Gln Pro Asp Ala Ala Asp Lys Ala
305                 310                 315
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<210> 7
<211> 22
<212> PRT

<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 7

Ala Ala Ala Phe Thr Gly Leu Thr Leu Leu Glu Gln Leu Asp Leu Ser
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Asp Asn Ala Gln Leu Arg
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<210> 8
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 8

Leu Asp Leu Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 9
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 9

Leu Asp Leu Ser Asp Asp Ala Glu Leu Arg
1 5 10

<210> 10
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 10

Leu Asp Leu Ala Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 11
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 11

Leu Asp Leu Ala Ser Asp Asp Ala Glu Leu Arg
1 5 10

<210> 12
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 12

Leu Asp Ala Leu Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 13
<211> 11
<212> PRT
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<220>
<223> Synthetic antibody

<400> 13

Leu Asp Ala Leu Ser Asp Asp Ala Glu Leu Arg
1 5 10

<210> 14
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 14

Leu Asp Leu Ser Ser Asp Asn Ala Gln Leu Arg
1 5 10

<210> 15
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 15

Leu Asp Leu Ser Ser Asp Glu Ala Glu Leu Arg
1 5 10

<210> 16
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 16

Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10

<210> 17
<211> 6
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<400> 17

Asp Asn Ala Gln Leu Arg
1 5

<210> 18
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 18

Ala Asp Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10 15

<210> 19
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 19

Leu Ala Leu Ser Asp Asn Ala Gln Leu Arg Val Val Asp Pro Thr Thr
1 5 10 15

<210> 20
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 20

Leu Asp Leu Ser Asp Asn Ala Ala Leu Arg Val Val Asp Pro Thr Thr
1 5 10 15

<210> 21
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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<400> 21

Leu Asp Leu Ser Asp Asn Ala Gln Leu His Val Val Asp Pro Thr Thr
1 5 10 15

<210> 22
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic antibody

<400> 22

Leu Asp Leu Ser Asp Asn Ala Gln Leu Ala Val Val Asp Pro Thr Thr
1 5 10 15